

## EAST Search History

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--|------------------|---------|------------------|
| L39   | 22   | olympus.as. and resonance and "348"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/04 21:01 |
| L40   | 1335 | 348/340,335.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/04 21:09 |
| L41   | 314  | 40 and (dust or contaminant or dirt or moisture or water or drop or droplet)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/04 21:02 |
| L42   | 215  | 40 and (dust or contaminant or dirt or moisture or water or drop or droplet) same (optical or lens or piezoelectric)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/04 21:08 |
| L43   | 22   | ("20010053288"   "20020171751"   "20030146980"   "20030202114"   "20030214588"   "20030214599"   "20030218685"   "20040047625"   "20040090549"   "20040169761"   "20040227837"   "20040263669"   "20050088563"   "4387973"   "4441796"   "4841387"   "4920420"   "5170288"   "5910700"   "6078438"   "6163340"   "6590613").PN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2007/08/04 21:04 |
| L44   | 666  | 348/205,351,374.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/04 21:08 |

## EAST Search History

|     |       |  |  |    |    |                  |
|-----|-------|--|--|----|----|------------------|
| L45 | 70    | 44 and (dust or contaminant or dirt or moisture or water or drop or droplet) same (optical or lens or piezoelectric) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/04 21:10 |
| L46 | 21    | 44 and vibrat\$3 same resonan\$3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/04 21:09 |
| L47 | 21    | 44 and (vibrat\$3 same resonan\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/04 21:10 |
| L48 | 306   | 348/208.2,208.7,208.11,209.99.<br>ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/04 21:10 |
| L49 | 383   | 348/208.2,208.7,208.11,208.99.<br>ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/04 21:10 |
| L50 | 9     | 49 and (vibrat\$3 same resonan\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/04 21:10 |
| L51 | 55160 | (vibrat\$3 same resonan\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/04 21:10 |

## EAST Search History

|     |        |   |  |    |    |                  |
|-----|--------|---|--|----|----|------------------|
| L52 | 214853 | (dust or contaminant or dirt or moisture or water or drop or droplet) same (optical or lens or piezoelectric) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/04 21:13 |
| L53 | 2681   | 51 and 52   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/04 21:11 |
| L54 | 819    | 51 same 52  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/04 21:11 |
| L55 | 52     | 54 and camera   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/04 21:11 |
| L56 | 506    | 359/507.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/04 21:12 |
| L57 | 44     | 359/507.ccls. and camera  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/04 21:12 |
| L58 | 109612 | (dust or contaminant or dirt or moisture or water or drop or droplet) same (vibrat\$3)                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/04 21:14 |

## EAST Search History

|     |       |   |     |    |    |                  |
|-----|-------|---|-----|----|----|------------------|
| L59 | 12246 | (dust or contaminant or dirt or moisture or water or drop or droplet) same (vibrat\$3)  | JPO | OR | ON | 2007/08/04 21:14 |
| L60 | 76    | (dust or contaminant or dirt or moisture or water or drop or droplet) same (vibrat\$3) same (ccd or camera or pixel or photosensor) | JPO | OR | ON | 2007/08/04 21:14 |

## EAST Search History

| Ref # | Hits | Search Query   | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|--|--|------------------|---------|------------------|
| S168  | 1373 | vibrat\$3 with resonan\$3 and (camera)                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/07/29 17:45 |
| S169  | 417  | vibrat\$3 with resonan\$3 and (camera) and @ad<="19991231"                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/07/29 17:45 |
| S170  | 270  | vibrat\$3 with resonan\$3 with frequen\$3 and (camera) and @ad<="19991231" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/07/29 18:05 |
| S171  | 80   | imaizumi.in. and resonance   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/07/29 18:06 |
| S172  | 17   | imaizumi.in. and resonance and mirror                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/07/29 18:06 |
| S173  | 80   | imaizumi.in. and resonance   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/07/29 18:07 |
| S174  | 155  | imaizumi and resonance   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/07/29 18:08 |